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INVESTOR IN PEOPLE

PN - JP63231079 A 19880927
PD - 1988-09-27
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TI - SOLENOID VALVE DEVICE

AB - PURPOSE: To provide a solenoid valve device operated to open and close utilizing a temperature sensing magnetic material with a timer function by causing a movable valve body arranged in a housing made of a nonmagnetic body to change its property from magnetic to nonmagnetic at a certain temperature. CONSTITUTION: Making a movable valve body 14 with a temperature sensing magnetic piece, a solenoid coil 16 is energized to actuate the valve body 14 and to bring a solenoid valve device to either communication or shutoff condition. When the energization of the solenoid coil 16 is continued, Joule heat is produced in the solenoid coil 16 to raise the temperature of the solenoid valve device. When the temperature of the solenoid valve device reaches a Curie point of the temperature sensing magnetic piece 14, the magnetic piece changes itself from a magnetic body to a nonmagnetic body. As a result, the magnetic flux from the solenoid coil 16 disappears from a magnetic circuit to deactivate the movable valve body 14. This provides a solenoid valve having a timer function.

IN - SUZUKI SHIGEMITSU
PA - AISIN SEIKI
IC - F16K31/06; F16K31/66

PAJ / JPO

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- CONSTITUTION: Making a movable valve body 14 with a temperature sensing magnetic piece, a solenoid coil 16 is energized to actuate the valve body 14 and to bring a solenoid valve device to either communication or shutoff condition. When the energization of the solenoid coil 16 is continued, Joule heat is produced in the solenoid coil 16 to raise the temperature of the solenoid valve device. When the temperature of the solenoid valve device reaches a Curie point of the temperature sensing magnetic piece 14, the magnetic piece changes itself from a magnetic body to a nonmagnetic body. As a result, the magnetic flux from the solenoid coil 16 disappears from a magnetic circuit to deactivate the movable valve body 14. This provides a solenoid valve having a timer function.

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